NNN	NNN	11111111	00000000000	NNN NNN	FFFFFFFFFFFFF
NNN	NNN	11111111	5555555555	NNN NNN	FFFFFFFFFFFF
NNN	NNN		000000000000000000000000000000000000000	NNN NNN	FFFFFFFFFFFF
		111111111			
NNN	NNN	111	000	NNN NNN	FFF
NNN	NNN	iii	ÇÇÇ	NNN NNN	FFF
NNN	NNN	111	ÇÇÇ	NNN NNN	FFF
NNNNN	NNN	111	CCC	NNN HANNAN	FFF
NNNNN	NNN	111	CCC	NNNNN NNN	FFF
NNNNN	NNN	111	CCC	NNNNN NNN	FFF
NNN NNN	NNN	111	ČČČ	NNN NNN NNN	FFFFFFFFFF
NNN NNN	NNN	ĪĪĪ	ČČČ	NNN NNN NNN	FFFFFFFFFF
NNN NNN	NNN	iii	ČČČ	NNN NNN NNN	FFFFFFFFFF
	NNNNN	iii	ččč	NNN NNNNN	FFF
	NNNNN	iii	ŠŠŠ	NNN NNNNN	FFF
	NNNNN	111	ČČČ	NNN NNNNN	FFF
NNN	NNN	111			FFF
		111		NNN NNN	
NNN	NNN	111	CCC	NNN NNN	FFF
NNN	NNN	111	CCC	NNN NNN	FFF
NNN	NNN	111111111		NNN NNN	FFF
NNN	NNN	111111111	000000000000	NNN NNN	FFF
NNN	NNN	11111111	000000000000000000000000000000000000000	NNN NNN	FFF

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	NN NN NN NN NN NN NNN NN NNNN NN NN NN N	FFFFFFFF FFFFFFFFF FF FF FF FFFFFFF FF	\$		000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	
		\$					

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O MODULE CNFSTORE

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0002
0004
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0012
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0018
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0020
0021
0022
0023
0024
0026
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0028
0029
0031
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0037
0038
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0040
0041
0042
ŎŎ44
0045
0046
0047
0048
0049
0050
0051
0052
```

8901234567890123456789012345678901234567890123

```
LANGUAGE (BLISS32),
IDENT = 'V04-000'
                                        ) =
BEGIN
```

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! FACILITY: DECnet Configurator Module (NICONFIG)

ABSTRACT:

This module contains the routines for reading and storing the system ID messages that are periodically broadcast on the NI.

ENVIRONMENT: VAX/VMS Operating System

AUTHOR:

CREATION DATE: 13-Oct-1982 Bob Grosso.

MODIFIED BY:

V03-002 TRC0002 Terry Cassidy Aug-23-1984 Inhibit processing of pad bytes in Sys ID

V03-001 RPG0001 May-19-1983 Bob Grosso Correct the arguments to LIB\$SIGNAL.

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```
16-Sep-1984 02:07:00
14-Sep-1984 12:49:54
CNFSTORE
                      DECnet Ethernet Configurator Module
                                                                                                                              VAX-11 Bliss-32 V4.0-742
V04-000
                      Definitions
                                                                                                                              [NICNF.SRC]CNFSTORE.B32;1
                               1 %SBTTL 'Definitions'
     56
57
                       0055
                      0056
0057
     58
59
                                     INCLUDE FILES:
                      0058
                      0059
     60
     61
                      0060
                               1 LIBRARY 'SYS$LIBRARY:STARLET':
                                                                                                       ! VMS common definitions
     62
63
                      0061
                      0062
0063
                               1 LIBRARY 'SHRLIBS: NMALIBRY':
                                                                                                       ! NICE code definitions
     64
                      0064
0155
0156
0253
0254
                                  REQUIRE 'LIB$: CNFDEF.R32';
     66
67
                                  REQUIRE 'SRC$: CNFPREFIX.REQ':
     68
     69
     70
71
72
73
74
77
77
78
79
                      0255
                      0256
                                     BUILTIN functions
                      0257
                      0258
0259
0260
0261
0262
0263
                                  BUILTIN
                                        INSQUE.
                                                                                ! INSQUE instruction
                                        REMQUE:
                                                                                ! REMQUE instruction
                                 GLOBAL LITERAL
SYSIDM_BUFSIZ = 64.
                      0264
0265
0266
0267
0268
0269
0271
0272
0273
                                        ADRTYP_BUFSIZ = 14:
     80
     81
     82
83
                                    TABLE OF CONTENTS:
     84
     85
     86
                               1 FORWARD ROUTINE
     87
                                             CNF$READ_SYSIDM,
BUFFER_ID : NOVALUE,
STORE_ID : NOVALUE,
INSERT_SID;
     88
                                                                                  Read the system ID messages from the NI Buffer the ID messages and re-issue read
     89
     90
91
                                                                                ! Partially parse the messages and store them ! Place the ID messages in the circuit block
     92
93
94
95
                                     EXTERNAL REFERENCES:
                      0280
     96
97
                      0281
                      0282
0283
0284
                                  EXTERNAL ROUTINE
     98
     99
                                        Module CNFMAIN
    100
                      0285
    101
                      0286
                                             CNFSEXIT,
CNFSTRACE,
                                                                                  Clean up and exit
                                                                                  Log messages to log file
Get zeroed virtual memory
    102
                      0287
                      0288
0289
0290
0291
    103
                                             CNFSGET_ZVM,
CNFSFREE_VM,
    104
                                                                                ! free virtual memory
    105
    106
                                       Module CNFWORKQ
                      0292
0293
0294
    107
    108
                                             WKQ$ADD_WORK_ITEM;
                                                                                ! Add work to work queue
    109
    110
                      0295
                                  EXTERNAL ROUTINE
                      0296
    111
```

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Page

CNFSTORE V04-000	DECnet Ethernet Configurator Module Definitions G 4 16-Sep-1984 02:07:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:49:54 [NICNF.SRC]CNFSTORE.B32;1
: 112 : 113 : 114 : 115	0297 1 STR\$COMPARE : ADDRESSING_MODE (GENERAL); 0298 1 0299 1 0300 1 EXTERNAL LITERAL 0301 1
115	0300 1 EXTERNAL LITERAL
117	
120	0305 1 EXTERNAL LITERAL 0306 1
122 123 124	0307 1 CNF\$_LOGIC, ! Program logic error or unexpected condition 0308 1 CNF\$_SYSID; ! Error while obtaining system ID message 0309 1
116 117 118 119 120 121 122 123 124 125 126 127	O303 1 O304 1 O305 1 EXTERNAL LITERAL O306 1 O307 1

Page 3 (2)

VAX-11 Bliss-32 V4.0-742

[NICNF.SRC] CNFSTORE.B32:1

```
DECnet Ethernet Configurator Module 16-Sep-1984 02:07:00 CNF$READ_SYSIDM Read the system id messages on 14-Sep-1984 12:49:54
  cir
               IMPLICIT INPUTS:
                       NONE
                       NONE
               ROUTINE VALUE:
  0334
0335
0336
0337
               SIDE EFFECTS:
  NONE
                  BEGIN
                  MAP
                  LOCAL
                       STATUS;
                  THEN
  0361
  0362
  0364
  0365
  0366
  0367
  0368
                  STATUS = $010
P 0369
P 0370
```

CNFSTORE

13012334567890123 113334567890123

144

145 146

148 149

150

151

152 153

154

159

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161

162

169 170

171

176 177

178 179 180

181 182 183

184 185

186

V04-000

```
%SBTTL 'CNF$READ_SYSIDM Read the system id messages on the NI' GLOBAL ROUTINE CNF$READ_SYSIDM (CIR) =
! FUNCTIONAL DESCRIPTION:
     CNF$READ_SYSIDM issues the QIO to read System ID Messages on the NI.
  FORMAL PARAMETERS:
                    CIRcuit control block. Contains buffers and information
                    on the circuit.
   IMPLICIT OUTPUTS:
  COMPLETION CODES:
          Always return success
          CIR: REF BBLOCK:
     Allocate the two buffers to hold the system ID message and the message header. If the buffers are already there
          then a logic error of some sort has occurred.
     if (.CIR [CIR$L_SYSIDMBUF] NEQ 0) OR (.CIR [CIR$L_ADRTYPBUF] NEQ 0)
     SIGNAL (CNF$_LOGIC);
EXECUTE (CNF$GET_ZVM (%REF(SYSIDM_BUFSIZ), CIR [CIR$L_SYSIDMBUF]) );
EXECUTE (CNF$GET_ZVM (%REF(ADRTYP_BUFSIZ), CIR [CIR$L_ADRTYPBUF]) );
     CHSFILL (0, 8, CIR [CIRSW_IOSB]); ! Initialize the I/O status block
     Issue QIO to read system id messages being broadcast on the NI
```

```
DECret Ethernet Configurator Module 16-Sep-1984 02:07:00 CNFSREAD_SYSIDM Read the system id messages on 14-Sep-1984 12:49:54
CNFSTORE
                                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                                               Page
VU4-000
                                                                                                                 [NICNF.SRC]CNFSTORE.B32:1
                                        FUNC = 10$ READLBLK,
CHAN = .CIR [CIR$W_CHAN],
   188
                    0373
   189
                                         EFN = CNFSC ASYNCHTEFN,
IOSB = CIR [CIRSW_TOSB],
                    0374
   190
   191
                    0375
                                         ASTADR = BUFFER_ID,
   192
                                        ASTPRM = .CIR,
P1 = .CIR [CIR$L SYSIDMBUF],
P2 = SYSIDM BUFSIZ,
P5 = .CIR [CIR$L_ADRTYPBUF]
                    0376
   194
                    0378
   195
                    0379
   196
                    0380
                    0381
   197
                    0382
0383
   198
                                   IF NOT .STATUS THEN SIGNAL (CNF$_SYSID, O, .STATUS);
   199
                                   RETURN TRUE:
   200
                    0384
                                   END:
                                                                                  ! routine CNF$READ_SYSIDM
                                                                                               .TITLE
                                                                                                         CNFSTORE DECnet Ethernet Configurator Module
                                                                                               .IDENT
                                                                                                         \V04-000\
                                                                                               .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                   45 43 41 52 54
                                                                             00000 P.AAB:
                                                                                               .ASCII \TRACE\
                                                                             00005
                                                                                               .BLKB
                                                                00000005
                                                                             00008 P.AAA:
                                                                                               .LONG
                                                                                               .ADDRESS P.AAB
                                                                •00000000
                                                                             00000
              73 79 73 5F 64 61
                                             65 72 24 66 6E 63
                                                                             00010 P.AAD:
                                                                                               .ASCII \cnf$read_sysidm\
                                                                             0001F
                                                                                               .BLKB
                                                                000000F
                                                                             00020 P.AAC:
                                                                                                        15
                                                                                               .LONG
                                                                                               .ADDRESS P.AAD
                                                                00000000
                                                                             00024
                                                                                    SYSIDM_BUFSIZ==
ADRTYP_BUFSIZ==
                                                                                                        CNFSEXIT, CNFSTRACE
CNFSGET_ZVM, CNFSFREE_VM
WKQSADD_WORK_ITEM
STRSCOMPARE, CNFSC_ASYNCH_EFN
CNFS_LOGIC, CNFS_SYSID
                                                                                               .EXTRN
                                                                                               .EXTRN
                                                                                               .EXTRN
                                                                                               .EXTRN
                                                                                               .EXTRN
                                                                                               .EXTRN
                                                                                                         CNF $GQ_CIRSURLST
                                                                                               .EXTRN
                                                                                                         SYSSQIO
                                                                                               .PSECT $CODE$, NOWRT, 2
                                                                      OOFC 00000
                                                                                               .ENTRY
                                                                                                                                                                    0315
                                                                                                         CNF$READ_SYSIDM, Save R2,R3,R4,R5,R6,R7
                                                  57 00000000G
                                                                                              MOVAB
SUBL 2
                                                                             00002
                                                                                                         LIB$SIGNAL, R7
                                                                                                        M4, SP
P.AAC
                                                                             00009
                                                                         9F
                                                                                                                                                                    0349
0348
                                                           0000
                                                                    CF
                                                                             0000C
                                                                                              PUSHAB
                                                           0000
                                                                         9F
                                                                             00010
                                                                                              PUSHAB
                                                                                                         P.AAA
                                                                             00014
                                                                         DD
                                                                                              PUSHL
                                        0000G
                                                  CF
56
                                                                         FB
                                                                             00016
                                                                                               CALLS
                                                                                                         #3, CNF$TRACE
                                                                             0001B
                                                                                                                                                                    0356
                                                                         D0
                                                                                              MOVL
                                                                                                         CIR, R6
                                                             38
                                                                    A6
                                                                         D5
                                                                             0001F
                                                                                              TSTL
                                                                                                         56 (R6)
                                                                         12
                                                                             00022
                                                                                              BNEQ
                                                                                                         15
                                                                         ĎŠ
                                                                            00024
00027
                                                             3C
                                                                    A6
                                                                                              TSTL
                                                                                                         60(R6)
                                                                                                                                                                    0357
                                                                    09
                                                                                              BEQL
                                                                                                        #CNF$_LOGIC
#1,_LIB$SIGNAL
                                                      0000000G
                                                                    8F
                                                                             00029 15:
                                                                                                                                                                    0359
                                                                         DD
                                                                                              PUSHL
                                                                             ŎŎŎŽF
                                                                         FB
                                                                                              CALLS
                                                             38
                                                                         9f
                                                                                                                                                                   0360
                                                                                              PUSHAB
                                                                                                         56(R6)
```

VC

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CNF STORE V04-000		DECnet Ethernet CNF\$READ_SYSIDM	Configu Read t	irato he s	or Module system id	mess	age	1 d s on 1	4 5-Sep-1984 6-Sep-1984	02:07 12:49	:00 VAX-11 Bliss-32 V4.0-742 Page :54 [NICNF.SRC]CNFSTORE.B32;1	(3)
			04	AE	40 04	8F	94	00035 0003A	MO	VZBL	#64, 4(SP) 4(SP)	
			0000G	CF 56	04	AE 02 50	9 F F B E 9	0003D	CA	SHAB LLS BC	#2, CNF\$GET_ZVM STATUS, 4\$	
			04	AE	30	A6	9f D0	00045	PU	SHAB IVL	60(R6) #14, 4(SP)	0361
			00006	CF	04	A6 0E 02 50	9 f f B	0004C	PU	SHAB	4(SP) #2, CNF\$GET_ZVM	
	08	00	00000	44 6E		50	50 50	00054	BL	BC VC5	STATUS, 45;	0741
	00	•		OL.	00	00 A6 7E		0005C			:	0364
					3 C	A6	D4 DD 7C	00060	PU	RL ISHL	60(R6)	0380
				7E	40 38	7E 8F	94	00065	MO	RQ VZBL	-(SP) #64, -(SP)	
						A6 56	DD DD	0006C	PU	SHL ISHL	56(R6) R6	
					0000V 0C	CF A6	9F 9F	0006E 00072	PU	ISHAB ISHAB	BUFFER_ID 12(R6)	
				7E	14	21 A6 8f	DD 32	00075 00077	PU CV	ISHL TWL	#33	
		0000	0000G	00 0	00000006	8f 0C	DD FB	0007B	PU	ISHL	20(R6), -(SP) #CNF\$C_ASYNCH_EFN #12, SYS\$QIO STATUS, 3\$	
				00 0D		50 50	E8 DD		BL	BS ISHL	STATUS, 3\$ C	0382
				0	00000006	7Ě 8F	04 00	08000	CL	RL	-(SP) #CNF\$_SYSID	
				67 50		03 01	FB DO	00095 00098	CA	LLS VL	#3, LIB\$SIGNAL :	0383
				<i>)</i>		O I	04	0009B				0384

; Routine Size: 156 bytes, Routine Base: \$CODE\$ + 0000

.

```
CNFSTORE
                        DECnet Ethernet Configurator Module 16-Sep-1984 02:07:00 buffer_id Remove the system id message from b 14-Sep-1984 12:49:54
                                                                                                                                      VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                             Page
V04-000
                                                                                                                                      [NICNF.SRC]CNFSTORE.B32:1
                                    %SBTTL 'buffer id Remove the system id message from buffer' ROUTINE BUFFER_ID (CIR) : NOVALUE =
   0386
0387
                        0388
                        0389
                                      FUNCTIONAL DESCRIPTION:
                        0390
0391
0392
0393
                                          Buffer_id is an AST routine called when a read for a system ID on the NI completes or cancels. If the read was cancelled then the circuit's buffers are deallocated. If the read was successful then the id message must be removed to another buffer so that the buffer can be re-used and the read re-issued immediately. The circuit block
                        0394
                        0395
                        0396
                                          and the id message will be queued to the work queue to be parsed and stored.
                        0398
                                       FORMAL PARAMETERS:
                        0399
                        0400
                                                cir
                                                            CIRcuit control block. Contains buffers and information
                                                            on the circuit.
                        0402
                                       IMPLICIT INPUTS:
                        0404
                                                NONE
                        0405
                        0406
0407
                                       IMPLICIT OUTPUTS:
                                                NONE
                        0408
                        0409
                                       ROUTINE VALUE:
                        0410
                                       COMPLETION CODES:
                        0411
                                                NONE
                        0412
                                       SIDE EFFECTS:
                        0414
                                                NONE
                        0415
                       0416
                       0418
0419
                                          BEGIN
                                          MAP
                       0421
04223
04223
04224
04224
04226
04228
04233
04333
04337
                                                CIR: REF BBLOCK:
                                                SYSIDM : REF BBLOCK:
                                          Check to see if surveillance has been disabled. Since surveillance is disabled by a routine executed from the work queue, and this routine is delivered by AST,
                                                care must be taken to ensure that errors are not introduced due to the timing of the AST completion.
                                                If the circuit was marked for disable but the AST was delivered
                        0438
                                                before the channel was deassigned, then just quit.
                        0439
                        0440
                                           IF .CIR [CIR$B_SURVEIL] EQL NMA$C_SUR_DIS
                        0441
                                          THEN
```

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```
rnet Configurator Module 16-Sep-1984 02:07:00
Remove the system id message from b 14-Sep-1984 12:49:54
CNFSTORE
                       DECnet Ethernet Configurator Module
                                                                                                                                VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFSTORE.B32;1
                                                                                                                                                                                    Page
V04-000
                       buffer_id
    259
260
261
                       0442
                                              EXECUTE (CNF$FREE_VM (%REF(ADRTYP_BUFSIZ), CIR [CIR$L_ADRTYPBUF]));
EXECUTE (CNF$FREE_VM (%REF(SYSIDM_BUFSIZ), CIR [CIR$L_SYSIDMBUF]));
CIR [CIR$L_ADRTYPBUF] = 0;
CIR [CIR$L_SYSIDMBUF] = 0;
RETURN TRUE;
                       0444
    263
263
265
265
267
                       0446
                      0448
04450
0451
0453
0453
0456
0457
0458
                                              END:
    268
                                              The I/O failed, and not because the surveillance was disabled
    269
270
271
272
273
274
275
276
278
                                              and the I/O cancelled, therefore signal the error.
                                         IF NOT .CIR [CIR$W_IOSB]
                                        THEN
                                              BEGIN
                                              SIGNAL (CNF$_SYSID, O, .CIR [CIR$W_IOSB]);
                                              RETURN TRUE:
                       0459
                                              END:
                       0460
                       0461
                      0462
    279
                                              Allocate a descriptor and fill it in
    280
   0464
                                        EXECUTE (CNF$GET_ZVM (%REF(DSC$C_S_BLN), SYSIDM));
                       0465
                                        SYSIDM [DSC$A_POINTER] = .CIR [CIR$L_SYSIDMBUF];
SYSIDM [DSC$W_LENGTH] = .CIR [CIR$W_IOSB1];
                       0466
                       0467
                       0468
                      0469
0470
0471
0472
0473
                                              Do the work of copying the ID out of the CIR block at the the leisure of the work queue. STORE ID will have to check whether surveillance was disabled on the circuit between now
    290
291
292
293
                                              and when it finally executes.
                      0474
0475
0476
0477
                                        WKQ$ADD_WORK_ITEM (STORE_ID, .CIR, .SYSIDM, .CIR [CIR$L_ADRTYPBUF]);
    294
295
                                        CIR [CIR$L_SYSIDM9UF] = 0;
CIR [CIR$L_ADRTYPBUF] = 0;
                      0478
    296
297
                      0479
                      0480
    298
                       0481
                                              While still at AST level, hurry up and re-issue the READ for the
                      0482
0483
    299
                                              System ID messages to reduce the chance of missing any.
    300
    301
                       0484
                                        CNF$READ_SYSIDM (.CIR);
    302
303
304
                       0485
                       0486
                                        RETURN TRUE:
                      0487
                                        END:
                                                                                 ! Routine buffer_id
                                                                                                           .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                       00028 P.AAF:
                                                              43 41 52 54
                                                                                                           .ASCII
                                                                                                                     \TRACE\
                                                                                       0002D
                                                                                                           .BLKB
                                                                                       00030 P.AAE:
                                                                        00000005
                                                                                                           .LONG
                                                                        00000000
                                                                                       00034
                                                                                                           .ADDRESS P.AAF
                                              5F 72 65 66 66 75 62
                                                                                       00038 P.AAH:
                                                                                                           .ASCII
                                                                                                                      \buffer_id\
                                                                                       00041
                                                                                                           .BLKB
```

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CNFSTORE V04-000	DECnet Ethernet Config buffer_id Remove the	urat sys	or Module stem id mes	sage	e fr	om b 1	5-Sep-	·1984 02:07 ·1984 12:49	7:00 VAX-11 Bliss-32 V4.0-742 9:54 [NICNF.SRC]CNFSTORE.B32;1	Page (4)
			00	0000	000 '	00044 00048	P.AAC	: .LONG .ADDRES	SS P.AAH	;
								.PSECT	\$CODE\$,NOWRT,2	
				(0004	00000	BUFFE	R_ID:	Sauce D2	. 0794
		5E	00001	08	C 2 9 F	00002		.WORD	Save R2 #8, SP	; 0386
			0000	08 CF CF 01	9F	00009		PUSHAB	P.AAG P.AAE	: 0426 : 0425
	0000G	CF		01 03	DD FB	0000D 0000F		SUBL2 PUSHAB PUSHAB PUSHL CALLS	#1 #3, CNF\$TRACE	
		CF 52 01	04 0 A	AC A2	D0 91	00014 00018 00010		MOVL CMPB	CIŘ, R2 10(R2), #1	0440
		•	3c	29	12 9F	0001C 0001E		BNEQ PUSHAB	1\$ 60(R2)	0443
	04	AE	04	ÔĒ	D0	00021		MOVL	#14, 4(SP) 4(SP)	; 0443
	0000G	CF 68	04	95	9F FB	00025		PUSHAB CALLS	#2 (NESEREE VM	
			38	28 28	E9	00030		CALLS BLBC PUSHAB MOVZBL PUSHAB CALLS	STATUS, 3\$ 56(R2) #64, 4(SP) 4(SP) #2, CNF\$FREE_VM	0444
	04	AE	38 40 04	8F AE	9 A 9 F	00033 00038		MOVZBL Pushab	#64, 4(SP) 4(SP)	:
	0000G	CF 55		A292EE2052FE2052	fB E9	0003B		CALLS Blbc	#2, CNF\$FREE_VM STATUS, 3\$	
			38	A2	7¢	00043		CLRQ RET	STATUS, 3\$ 56(R2)	: 0446
		14 7E	0C 0C	A2 A2 7E	Ĕ8 32	00047	1\$:	BLBS CVTWL	12(R2), 2 \$ 12(R2), -(SP)	0446 0447 0454 0457
				7E	D4	0004F		CLRL	-(SP)	; 0437
	0000000G	00	0000000G	8F 03	DD FB	00057		PUSHL CALLS	#CNF\$ SYSID #3, LTB\$SIGNAL	
			04	ĄĘ	04 9F	0005E	2\$:	RET PUSHAB	SYSIDM	; 0458 ; 0464
	04	AE	04	80 AE	D0 9f	00062		MOVL PUSHAB	SYSIDM #8, 4(SP) 4(SP)	;
	0000G	CF 27		AE 08 AE 20 5 AE 20 5 CF	FB E9	00069		CALLS BLBC	#2, CNF\$GET_ZVM STATUS, 3\$	•
	04	50	04 38	AE	ĎÓ DO	00071		MOVL	SYSIDM, RO	0466
	04	A0 60	04 38 0E 30	ΑŽ	В0	0007A		MOVL MOVW PUSHL PUSHL	14(R2), (R0)	0467 0475
			30	50	DD DD	00081		PUSHL	RO	: 0473
			0000v	SZ CF	DD 9F	00085		PUSHL PUSHAB	#2, CNF\$GET_ZVM STATUS, 3\$ SYSIDM, RO 56(R2), 4(RO) 14(R2), (RO) 60(R2) RO R2 STORE ID	•
	00006	CF	38	04 A2 52	FB 7C	00089 0008E		CALLS CLRQ	#4, WKQ\$ADD_WORK_ITEM 56(R2)	0477
	FECC	CF		52 01	DD	00091		PUSHL CALLS	#4 WRQ\$ADD_WORK_ITEM 56(R2) R2 #1, CNF\$READ_SYSIDM	0477 0484
	. 200	••		J.	04	00093 00098	3\$:	RET	ending a reason	: 0487

; Routine Size: 153 bytes, Routine Base: \$CODE\$ + 009C

```
N 4
CNFSTORE
                   DECnet Ethernet Configurator Module 16-Sep-1984 02:07:00 store_id Parse and store the system id messag 14-Sep-1984 12:49:54
                                                                                                         VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                         [NICNF.SRC]CNFSTORE.B32:1
   306
307
                            *SBTTL 'store_id Parse and store the system id message'
                   0489
0490
                            ROUTINE STORE TO (CIR, SYSIDM DSC, ADRTYPBUF) : NOVALUE =
   308
                   0491
0492
0493
0494
   309
   310
3112
313
314
316
317
318
                              FUNCTIONAL DESCRIPTION:
                                 Store id is executed off the work queue. The id message must be parsed and stored. If it is the id from a familiar device then the cell for
                   0495
                   0496
0497
                                 that device's data is updated, otherwise a new cell is created.
                   0498
                   0499
                              FORMAL PARAMETERS:
                   ŎŚÓÚ
   319
                   0501
                                      cir
                                                     CIRcuit control block. Contains buffers and information
                  0502
0503
   on the circuit.
                   0504
                                                     Descriptor of buffer containing system ID message
                                      sysidm_dsc
                   0505
                  Bufrer containing the current NI address and
                                      adrtypbuf
                                                     protocol type
                               IMPLICIT INPUTS:
                                      NONE
                               IMPLICIT OUTPUTS:
                                      NONE
                               ROUTINE VALUE:
                               COMPLETION CODES:
                                      NONE
                              SIDE EFFECTS:
                                      NONE
                                 BEGIN
                                 MAP
                                      ADRTYPBUF : REF BBLOCK,
                                      CIR: REF BBLOCK,
                  0528
0529
0530
                                      SYSIDM_DSC : REF BBLOCK;
                                 LOCAL
                                      SID : REF BBLOCK.
                                                                            ! System Id storage block
                  0531
0532
0533
0534
0535
                                      SIMBUF:
                                 0536
0537
0538
0539
                                      If the circuit was not marked for disable after the AST was delivered
   357
358
                                      but before STORE_ID was called from the work queue then store the
                   0540
                                      system ID message in the circuit block.
   359
360
                   0541
                  0542
0543
                                 IF .CIR [CIR$B_SURVEIL] EQL NMA$C_SUR_ENA
   361
                                 THEN
   362
                                      BEGIN
```

CN

VC

Page

```
DECnet Ethernet Configurator Module 16-Sep-1984 02:07:00 store_id Parse and store the system id messag 14-Sep-1984 12:49:54
CNFSTORE
                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                                   (5)
V04-000
                                                                                                    [NICNF.SRC]CNFSTORE.B32:1
   363
364
365
                  0545
                  0546
0547
                                         Allocate a buffer to hold the system ID message.
   3667
3689
3771
3773
3776
3777
                  0548
                  0549
                                    EXECUTE (CNFSGET_ZVM (XREF(SIDSC_LENGTH), SID) );
                  0550
                                    EXECUTE (SGETTIM ( TIMADR = SID [SIDSQ_LSTREPORT] ));
                  0551
                  0552
0553
                                             Extract Current NI address and Protocol type from
                  0554
                                             the ADRTYPBUF buffer and deallocate the buffer.
                  0555
                  0556
                                    CH$MOVE (SID$C_ADRLEN, .ADRTYPBUF + SID$C_ADRLEN, SID [SID$T_CURADR]);
                  0557
                  0558
                  0559
                                             If TYPE is not Protocol 260 (Remote Console system ID)
   378
379
                  0560
                                             Then there's been an error.
                  0561
                  0562
0563
   380
                         3 !!
                                    TBS
   381
382
383
384
385
                  0564
                  0565
                                             Extract and store info from the System ID Message buffer
                  0566
                  0567
                                    SIMBUF = .SYSIDM_DSC [DSC$A_POINTER] + 4;
                                                                                             Point to beginning of buffer and skip past
   386
387
                  0568
                                                                                             Code byte, Pad byte and Receipt number word
                  0569
   388
389
390
391
392
393
394
395
                  0570
                                         The system ID message is self describing. A word of type code
                  0571
                                         is following by a word containing the length in bytes of the data
                  0572
0573
                                         field which follows. Loop reading a type word, length byte and
                                         processing the data field, until the whole message has been
                  0574
                                        stored away in the appropriate fields of the SID which will be placed in the CIR block.
                  0575
                  0576
                  0577
                                    WHILE .SIMBUF LSS (.SYSIDM_DSC [DSC$A_POINTER] + .SYSIDM_DSC [DSC$W_LENGTH]) DO
   396
397
                  0578
                                         BEGIN
                  0579
                                         LOCAL
   398
                  0580
                                             LENGTH,
   399
                  0581
                                             TYPE:
   400
                  0582
   401
                  0583
                                         TYPE = .(.SIMBUF).<0,.16>;
                                                                                    Word of type code
   402
                  0584
                                                                                  ! Byte of length of data field
                                         LENGTH = .(.SIMBUF) < 16, 8>;
   403
                  0585
                                         IF .LENGTH LEQ 0
   404
                  0586
                                         THEN
   405
                  0587
                                             BEGIN
   406
407
                  0588
                                             CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE *** ERROR '),
                  0589
                                                  $DESCRIPTOR ('store_id - illegal system ID field length'));
   408
                  0590
                                             EXITLOOP:
   409
                  0591
                                             END:
   410
                  0592
                  0593
   411
                                         SIMBUF = .SIMBUF + 3;
                                                                                  ! Skip type and length to data
  412
                  0594
                  0595
   414
                  0596
                                             Dispatch on field type to store data in proper location in
                  0597
                                             SID block.
   416
                  0598
                  0599
                                         SELECTONE .TYPE OF
   418
                  0600
                                             SET
   419
                  0601
```

CN

```
DECnet Ethernet Configurator Module 16-Sep-1984 02:07:00 store_id Parse and store the system id messag 14-Sep-1984 12:49:54
CNFSTORE
                                                                                                VAX-11 Bliss-32 V4.0-742
                                                                                                                                        Page
                                                                                                ENICHF.SRCICHFSTORE.B32;1
V04-000
                 0602
   MOP version, MOP version ECO, MOP version User ECO
                 0604
                 0605
                                            [SIMSC MOPVERTYP]:
                                                BEGIN
                 0606
0607
                                                IF .LENGTH EQL 3 THEN
                 0608
                                                    BEGIN
                                                    SID [SID$B_MOPVER] = .(.SIMBUF) <0, 8>;
SID [SID$B_MOPECO] = .(.SIMBUF) <8, 16>;
SID [SID$B_MOPUSRECO] = .(.SIMBUF) <16, 8>;
                                                                                                         ! MOP version
                 0609
                                                                                                           MOP version ECO
                 0610
                                                                                                         ! MOP version User ECO
                 0611
                 0612
                                                    END
                                                ELSE
                                                    0614
                 0615
                                                SIMBUF = .SIMBUF + .LENGTH;
                 0616
                                                                                                 ! Skip over data to next TYPE
                 0617
                                                END:
                 0618
                 0619
                 0620
0621
0622
                                                funtions are returned in a word bit mask. To make
                                                life easier when building the SHOW response later,
                                                figure how many of the bits in the mask are set.
                 0623
                                            [SIMSC_FUNCTNTYP]:
BEGIN
                 0624
                 0625
                 0626
                                                BIND
                 0627
                                                    FUNCTIONS = SID [SID$W_FUNCTIONS] : BITVECTOR [SID$C_MAXFUNC];
                 0628
   447
                 0629
                                                IF .LENGTH NEQ 2
   448
                 0630
                                                THEN
                                                0631
   449
450
451
453
454
455
457
458
                 0633
                                                                                                Skip over data to next TYPE
                                                SIMBUF = .SIMBUF + .LENGTH;
                 0634
                 0635
                 0636
                                                    Count the number of bits that are set
                 0637
                 0638
                                                INCR INDEX FROM O TO SIDSC_MAXFUNC - 1 DO
                 0639
                                                    IF .FUNCTIONS [.INDEX]
                 0640
   459
                                                    THEN SID [SIDSB_NUMFUNC] = .SID [SIDSB_NUMFUNC] + 1;
                 0641
   460
                                                END:
                 0642
                 0643
   461
   462
                 0644
                                                Get the 6-byte Hardware address
   463
                 0645
                 0646
   464
                                            [SIMSC_HDWADRTYP]:
BEGIN
                 0647
   465
                 0648
   466
                                                CHSMOVE (SIDSC_ADRLEN, .SIMBUF, SID [SIDST_HRDWADR]);
                 0649
   467
                                                SIMBUF = .SIMBUF + .LENGTH;
                                                                                                ! Skip over data to next TYPE
   468
                 0650
                 0651
   469
470
471
472
473
474
475
                                                END:
                 0652
                 0653
                 0654
                                                Get the device type
                 0655
                 0656
                                            [SIMSC DEVICETYP]:
                 0657
   476
                                                SID [SID$B_DEVICE] = .(.SIMBUF) <0, 8>;
                 0658
```

CN VO

12 (5)

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DECnet Ethernet Configurator Module 16-Sep-1984 02:07:00 store_id Parse and store the system id messag 14-Sep-1984 12:49:54
CNFSTORE
                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                                                               Page
V04-000
                                                                                                     [NICNF.SRC]CNFSTORE.B32:1
                  0659
   477
                                                  SIMBUF = .SIMEUF + .LENGTH;
                                                                                                     ! Skip over data to next TYPE
   0660
                                                  END:
                  0661
                  0662
                                                  There is a data field returned which we don't understand.
                  0664
                                                  Skip over it and proceed merrily on our way.
                  0665
                                              [OTHERWISE]:
                  0666
                  0667
0668
                                                  BEGIN
                                                  0669
0670
                                                  SIMBUF = .SIMBUF + .LENGTH:
                                                                                                     ! Skip over data to next TYPE
                  0671
                                                  END:
                  0672
                  0673
                                              TES:
                  0674
                  0675
                                         END:
                                                                                   ! While parsing System ID Message buffer
                  0676
                  0677
   496
                  0678
                                         Place the SID into the circuit block on an ordered linked list
                  0679
   498
                  0680
                                     INSERT_SID (.SID, .CIR):
   499
500
501
                  0681
                                                                                  ! If surveillance was still enabled
                                     END:
                  0682
                  0683
   502
503
504
505
506
507
                  0684
                                     If the circuit was marked for disable after the AST was delivered
                  0685
                                     but before STORE_ID was called from the work queue then just
                                     deallocate the buffers and quit.
                  0686
                  0687
                               EXECUTE (CNF$FREE_VM (XREF(ADRTYP_BUFSIZ), ADRTYPBUF));
EXECUTE (CNF$FREE_VM (XREF(SYSIDM_BUFSIZ), SYSIDM_DSC [DSC$A_POINTER]));
EXECUTE (CNF$FREE_VM (XREF(DSC$C_S_BLN), SYSIDM_DSC));
                  0688
                  0689
   508
509
                  0690
                  0691
   510
                  0692
                                RETURN TRUE:
   511
                  0693
                                END:
                                                                ! Routine Store_id
                                                                                     .PSECT $PLIT$, NOWRT, NOEXE, 2
                                              45 43 41 52 54
                                                                    0004C P.AAJ:
                                                                                     .ASCII \TRACE\
                                                                     00051
                                                                                     .BLKB
                                                         00000005
                                                                     00054 P.AAI:
                                                                                     .LONG
                                                         000000000
                                                                    00058
                                                                                     .ADDRESS P.AAJ
                                         5F 65 72 6F
                                                                     0005C P.AAL:
                                    69
                                                                                     .ASCII \store_id\
                                                         8000000
                                                                     00064 P.AAK:
                                                                                     .LONG
                                                                    00068
                                                                                     .ADDRESS P.AAL
                                                         00000000
        52 52 45 20 2A 2A 2A 20 45 43 41 52 54 20
                                                                     0006C P.AAN:
                                                                                     .ASCII \TRACE *** ERROR \
                                                                     0007B
                                                         00000010
                                                                     0007C P.AAM:
                                                                                     .LONG
                                                         000000000°
74 73
61 67
65 69
                                                                                     .ADDRESS P.AAN
                                                                    00080
                                                  72
20
64
                           20
65
67
                                    69
73
65
                                         5F
79
6C
                                              65
73
20
                  50
50
                                64
74
6E
                                                       6F
                                                                     00084 P.AAP:
                                                                                   .ASCII \store_id - illegal system ID field lengt\
                       6D
                                                       60
                                                                     00093
                                                       60
                                                                     000A2
                                                                68
                                                                     DODAC
                                                                                     .ASCII
                                                                                              <u>\</u>h\
                                                                     000AD
                                                                                     .BLKB
                                                         00000029
                                                                     000B0 P.AAO:
                                                                                              41
                                                                                    .LONG
```

V(

	STOR -000			DEC	net re_i	Ethe d	rnet Pars	Conse and	figur d sto	ator re t	Module ne syst	em ic	d me	ssag 1	5 5-Sep-1 4-Sep-1	984 02:07 984 12:49	:00 v	(AX-11 Bliss-32 V4.0-742 NICNF.SRCJCNFSTORE.B32;1	Page	14 (5)
52	4F	52	52	45	20	2A	2 A	2 A	20	45	45 41	00000 52	20	000c7	P.AAR:	.ADDRES	S P.AAP \TRACE	*** ERROR \	•	ı
	50	4F	4D	20	20	20	64	69	5F	65	72 6F	00000 00000 74	000'	80008 00000 00000	P.AAQ: P.AAT:	.ASCII	16 S P.AAR \store_	id - MOP\	•	
52	4 F	52	52	45	20	2A	2 A	2 A	20	45	43 41	00000 00000 52)00' 54	000DE 000E0 000E4 000E8	P.AAS: P.AAV:	.BLKB .LONG .ADDRES .ASCII	14 S P.AAT \TRACE	*** ERROR \	•	
43	4E	55	46	20	2D	20	64	69	5F	65	0	00000	000'	000FC	P.AAU: P.AAX:		16 S P.AAV	id - FUNCTION LENGTH\		
				20 48	2D 54	20 47	64 4E	69 45	5F 4C	65 20	4E 4F	49 00000	73 54	0010F 0011A	P.AAW:	.BLKB	2 26		:	
52	4F	52	52	45	20	2 A	2A	2 A	20	45	43 41	00000 52)00' 54 20	00120 00124 00133	P.AAZ:	.ADDRES	S P.AAX	*** ERROR \		
							64	69	5F	65	72 6F	00000)00' 73)08	00134 00138 00130 00144	P.AAY: P.ABB: P.ABA:	.LONG .ADDRES .ASCII .LONG	16 S P.AAZ \store_ 8	id\		
											U	00000	,000	00148			S P.ABB SYS\$GET	TIM	;	
																.PSECT		NOWRT,2		
								000	5 5		0000°		9E	00002	STORE_	.WORD MOVAB SUBL2 PUSHL PUSHAB PUSHL	P.AAK, #8, SP R11 P.AAI		:	0489 0535 0534
								0000)G (5	Å	04 0 A	AC AA 03	00 95 13	0000A 0000C 0000F 00011 0001A		CALLS MOVL TSTB BEQL	#3, CNF CIR, R1 10(R10) 1\$	0	(0542
								0000			04 04	00E3 AE 25 AE 02 50 AE 01 50	31 9F 00 9F FB	00022 00025 00029 00020	1\$:	BRW PUSHAB MOVL PUSHAB CALLS	19\$ SID #37, 4(4(SP) #2, CNF	SGET ZVM		0549
							000	00000	0 5		04 16	50 AE A6 01 50	E9 00 9f fB E8	00030		BLBC MOVL PUSHAB CALLS BLBS	STATUS, SID, R6 22(R6)	SECTIM SECTION		0550
					10	A6		06	5 5 5	0	0C 08	AC 06 AC 04 69	04 D0 28 D0	00045	3\$:	RET MOVL MOVC3 MOVL ADDL3 MOVZWL		SUF, RO 10), 16(R6) DSC, R9 19), SIMBUF	(0556 0567 0577

CNFSTORE V04-000	DECnet store_i	Ethernet Con d Parse and	d store	the syste				_		Page 15 (5)
			50 50	04	A9 58	D1 00	05C 06Q	ADDL2 CMPL	4(R9), R0 SIMBUF, R0	;
			52 57	02	16 68 A8 OF	30 00	063 065 068	BGEQ MOVZWL MOVZBL	5\$ (SIMBUF), TYPE 2(SIMBUF), LENGTH	0583
			,	4C 18	OF AB AB	14 00	06C 06E	BGTR PUSHAB PUSHAB	6\$ P.AAO P.AAM	; 0584 ; 0585 ; 0589 ; 0588
		000	OG CF		AB 01 03 7F	DD 00 FB 00	074 076	PUSHL CALLS	N1 N3. CNF\$TRACE	;
			5 8 01		7F 03	CO 00	07B 5\$: 07D 6\$:	BRB ADDL2	18\$ #3, SIMBUF	; 0587 ; 0593
			03		03 52 18 57	12 00	080 083 085	CMPL BNEQ CMPL	TYPE, #1 8\$ LENGTH. #3	; 0605
		11			0B 68	12 00	088 08A	BNEQ MOVW	7\$ (\$IMBUF), 30(R6)	: 0607
		3: 2:	E A6	02	0B 68 A8 62	90 00	08 <u>E</u> 093	MOVB BRB	2(SIMBUF), 32(R6) 17\$: 0611 : 0607
				7C 64	AB AB 53 52	9F 00 9F 00	095 7 \$: 098	PUSHAB PUSHAB	P.AAS P.AAQ	; 0615 ; 0614
			02		52	D1 00	09B 09D 8\$:	BRB CMPL	16\$ TYPE, #2	0624
			02		2B 57 0f	12 00 D1 00 13 00	0A0 0A2 0A5	BNEQ CMPL BEQL	13\$ LENGTH, #2 9\$. 0629
				00B8 0094	OF CB CB	9F 00	0A7	PUSHAB PUSHAB	P.AAU P.AAU	0632 0631
		0000	G CF		01 03	DD 00	OAF OB1	PUSHL CALLS	#1 #3, CNFSTRACE	:
		27	2 A6 58		68 57	BO 000	086 9\$: 08A	MOVW	(SIMBUF), 34(R6) LENGTH, SIMBUF	; 0633 ; 0634
		03 22	2 A6	21	50 50 A6 0F	D4 000 E1 000	OBF 10\$: OC4 OC7 11\$:	CLRL BBC INCB	INDEX INDEX, 34(R6), 11\$ 33(R6)	; 0639 ; 0640 ; 0641
		F4	50	ζ,	OF 8C	f3 000	007 11\$: 00B 12\$: 00D 13\$:	AOBLEQ BRB	#15, INDEX, 10\$: 0640 : 0599
	•		07		52 07	D1 000	000	CMPL BNEQ	TYPE, #7 14\$: 0647
	0A	A6	68		06 1E	11 00	002 007 000 1/\$:	MOVC3 BRB	#6, (SIMBUF), 10(R6)	: 0649 : 0650
		0000006			8027 061 1526 686 081 081	12 00	009 14\$: 0E0 0E2	CMPL BNEQ MOVB	TYPE, #100 15\$ (SIMBUF), 36(R6)	. 0656 . 0658
			• 10	00E0	OF CB	11 00 9F 00	DE6 DF8 15%:	BRB PUSHAB	17\$ P.ABA	: 0659 : 0669
				0000	(B 01	9F 00	DEC DFO 16\$: DF2 DF7 17\$:	PUSHAB PUSHL	P.AAY #1	0668
		000	0G CF 58		01 03 57	FB 00	OF2 OF7 17\$:	CALLS ADDL2	#3, CNF\$TRACE LENGTH, SIMBUF	0670
		000	OV CF	0440	CF 8F 02	BB 00	OFA OFC 18\$:	BRB PUSHR	12\$ #^M <r6,r10> #2 INSERT SID</r6,r10>	0577 0680
		000		ОС	AC OF	9F 00	100 105 19 \$: 108	CÁLLS PUSHAB MOVL	#2, INŠERT_SID ADRTYPBUF #14, 4(SP)	0688
			OG CF	04	95 96 96	9F 00	10C 10F	MOVL PUSHAB CALLS	4(SP) #2, CNF\$FREE_VM	•

CNFSTORE V04-000	DECnet Et	thernet Parse	Confi and	gurator store t	Module he system	n id	l me	ssag	6-5 14-5	5 Sep-1984 Sep-1984	02:07 12:49	:00	VAX-11 Bliss-32 V4.0-742 [NICNF.SRC]CNFSTORE.B32;1	Page 16 (5)	1
		7E	08 04	24 AC AE	40 04	50 04 8F	E9 (1 9A 9F	0011 0011 0011		BI AI M(LBC DDL3 OVZBL USHAB	STAT	TUS, 20\$ SYSIDM_DSC, -(SP) 6,4(SP)	0689	
			0000G	ÓF	08	A5000 A8000 A8000	FB E9	0012 0012 0012	9	C/ Bi	ALLS LBC USHAB	M2 STÅT SYSI	CNF\$FREE_VM TUS, 20\$ IDM DSC	0690	ļ
			04 0000G	AE CF	04	08 AE 02	D0 9f fB 04	0013	33 36	PI C/	OVL USHAB ALLS ET	4(\$P	4(\$P) P) CNF\$FREE_VM	0693	

; Routine Size: 316 bytes, Routine Base: \$CODE\$ + 0135

```
H 5
16-Sep-1984 02:07:00
14-Sep-1984 12:49:54
CNFSTORE
                   DECnet Ethernet Configurator Module
                                                                                                           VAX-11 Bliss-32 V4.0-742
V04-000
                   insert_sid Insert SID into CIR block
                                                                                                           [NICNF.SRC]CNFSTORE.B32:1
   513
514
                          1 %SBTTL 'insert sid Insert SID into CIR block'
1 ROUTINE INSERT_SID (SID, CIR) =
                   0695
   515
                   0696
   516
                   0697
   517
                   0698
                               FUNCTIONAL DESCRIPTION:
   518
                   0699
   519
                   0700
                                Place the system ID message into a doubly linked list of system ID
                   0701
   messages in the CIR block, ordered by NI hardware address.
                   0702
                   0703
                               FORMAL PARAMETERS:
                   0704
                   0705
                                                System ID storage block.
                                      sid
                   0706
                   0707
                                      cir
                                                CIRcuit control block. Contains buffers and information
                   0708
                                                on the circuit.
                   0709
                   0710
                               IMPLICIT INPUTS:
                   0711
                                       NONE
                   0712
                               IMPLICIT OUTPUTS:
                   0714
                                       NONE
                   0715
                   0716
0717
                               ROUTINE VALUE:
                               COMPLETION CODES:
                   0718
                                       Success or a failure returned by a routine which is called
                   0719
                                       from INSERT_SID
                   0720
   0721
                               SIDE EFFECTS:
                  0722
0723
0724
0725
0726
0727
                                      NONE
                          1 '--
                                 BEGIN
                                 MAP
                                      CIR : REF BBLOCK,
                  0729
0730
0731
0732
0733
0734
0735
0736
0737
0738
                                      SID : REF BBLOCK:
                                 LOCAL
                                      STATUS:
                                 IF .CIR [CIR$L_SIDFLINK] EQL CIR [CIR$L_SIDFLINK]
                                 THEN
   556
557
                                           This is the first ID message stored, so just plop it in.
   558
                   0740
0741
0742
0743
   559
                                       INSQUE (.SID, .CIR [CIR$L_SIDBLINK])
   560
                                 ELSE
   561
                                       BEGIN
   562
563
                   0744
                                           Create a doubly linked list ordered by NI Hardware address
                   0745
   564
                   0746
0747
   565
                                      LOCAL
                                           CMPR_ADR_DSC : BBLOCK [DSC$C_S_BLN],
NSRT_ADR_DSC : BBLOCK [DSC$C_S_BLN],
CMP_SID : REF BBLOCK;
   566
                   0748
   567
                   0749
   568
```

569

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Page 18

13 0004B

9E 0004D 9F 00052

9F 00055

FB 00058

CF 0005F

DO 00077 OE 0007B

9F 00080

00 00083 9F 00087

FB 0008A E8 0008F 04 00092

ŎĔ 0009D

SA000 00

04 000A5

11

DO 00093 75:

00097

DO 00099 85:

00067 35:

OE 0006D 4\$: 11 00072 5\$: OF 00074 6\$: BEQL

MOVAB

PUSHAB

PUSHAB

CALLS

CASEL

.WORD

INSQUE

REMQUE

INSQUE

PUSHAB

PUSHAB

CALLS

BLBS

RET

MOVL

BRB

MOVL

MOVL

RET

INSQUE

BRB

MOVL

MOVL

10(R2), CMPR_ADR_DSC+4

CMPR_ADR_DSC

RO, #-1, #2

asid, a4(R2)

(R2), STATUS CMP SID, RO asid, a4(R0)

#2, CNF\$FREE_VM

(R2), CMP_SID

ašiĎ, a68(RO) #1, k0

CMP_SID #37, 4(SP)

STATUS, 9\$

ČIR, RO

4(SP)

2\$

45-35.-

6\$-3\$,-7\$-3\$

NSRT_ADR_DSC #2, STR\$COMPARE 0767

0769

0778

0779

0787

0788

0789

0790

0798

0765

0808

0812

0813

4 C

A2 AE

AE 02 50

BC

2E 62 AE BC AE 25

AE 02 50

62 A2

AC BC 01

0006

10

04

04

08 04

14

04

04

04

0000G

04

44

0000000G

02 FFFFFFF

0020

AE

0000

B2

50

B0

AE

10

AE

B0 50 CNFSTORE V04-000

DECnet Ethernet Configurator Module insert_sid Insert SID into CIR block

VAX-11 Bliss-32 V4.0-742 ENICHF.SRCJCNFSTORE.B32;1

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; Routine Size: 166 bytes, Routine Base: \$CODE\$ + 0271

**

	F STORE 4-000 634 635	DECnet Ethernet Configuinsert_sid Insert SID 0814 1 END 0815 0 ELUDOM	urator Mo into CIR	odule 1 block		16-Sep-198 14-Sep-198 of module CM	34 02:07:00 34 12:49:54 NFSTORE	VAX-11 Bliss-32 V4.0-742 ENICHF.SACJCHFSTORE.B32;1
•			PSECT SU	IMMAR Y			.EXTRN LIBS	\$SIGNAL
:	Name	Bytes	. 5201 50	,, ,, ,, ,, ,		Attributes		
•	SPLITS SCODES . ABS .		332 NOVE 91 NOVE 0 NOVE	C,NOWR C,NOWR C,NOWR	T, RD, T, RD, T,NORD,	NOEXE, NOSHR, EXE, NOSHR, NOEXE, NOSHR,	LCL, REL, LCL, REL, LCL, ABS,	CON, NOPIC, ALIGN(2)
		Library	Statist	ics				
	File		To	tal	Symbols Loaded	Percent	Pages Mapped	Processing Time
	\$255\$DUA28: _\$255\$DUA28:	[SYSLIB]STARLET.L32;1 [SHRLIB]NMALIBRY.L32;1	9	776 887	9	0	581 47	00:01.0 00:00.8
			COMMAND	QUALI	F I ERS			
	BLISS/C	HECK=(FIELD,INITIAL,OPTI	MIZE)/LI	S=L1S \$: CNFSTOR	E/OBJ=OBJ\$:CA	FSTORE MSRC	S: CNFSTORE/UPDATE=(ENHS: CNFSTORE)
:	Size: Run Time: Elapsed Time: Lines/CPU Min Lexemes/CPU-M Memory Used: Compilation C	n: 2692 Nin: 19912	es					

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EX

MO NM NM SY LI 0280 AH-BT13A-SE

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